

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method of effecting handoff of a mobile station from a first base station in a first cellular communications system controlled by a first mobile switching control station to a second base station in a second cellular system controlled by a second mobile switching control station, said first cellular communications system being a CDMA system, and said second cellular system being a GSM system, the method comprising:

measuring at the mobile station a first parameter of a first signal transmitted by said first base station;

measuring at the mobile station a second parameter of a second signal transmitted by said second base station;

communicating a signal quality message from the mobile station via the first base station to said first mobile switching control station, when the first and second parameters reach a predetermined condition;

generating at the first mobile switching control station an Application Data Delivery Service (ADDS) message containing handoff data, the ADDS message being a type of tunneling mechanism which transparently passes within the CDMA system GSM parameters;

communicating the ADDS message from said first mobile switching control station to said mobile station;

generating at the mobile station a Mobile Application Protocol (MAP) message containing the handoff data; and

communicating the MAP message from the mobile station to the second mobile switching control station.

2. (Original) The method as claimed in claim 1, further comprising generating at the second mobile switching control station channel information identifying a channel in the second communications system for the mobile station.

3. (Previously Presented) The method as claimed in claim 2, further comprising establishing communication between said mobile station and said second base station in the identified channel.

4. (Previously Presented) The method as claimed in claim 3, further comprising discontinuing communication between said mobile station and said first base station.

5. (Previously Presented) The method as claimed in claim 1, wherein said first and second parameters correspond to signal strength.

6. (Previously Presented) The method as claimed in claim 1, wherein said handoff data includes timing information.

7. (Previously Presented) The method as claimed in claim 6, wherein said handoff data includes authentication data.

8. (Currently Amended) A mobile station comprising:

a first transceiver chain operable to receive and transmit signals with a first base station in a first cellular communications system, said first cellular communications system being a CDMA system;

a second transceiver chain operable to receive and transmit signals with a second base station in a second cellular communications system, said second cellular communications system being a GSM system; and

a controller for:

measuring a first parameter of a first signal transmitted by said first base station;

measuring a second parameter of a second signal transmitted by said second base station;

communicating a signal quality message from the mobile station via the first base station to said first cellular communications system, when the first and second parameters reach a predetermined condition;

receiving from the first base station an Application Data Delivery Service (ADDS) message containing handoff data, the ADDS message being a type of tunneling mechanism which transparently passes within the CDMA system GSM parameters;
generating a Mobile Application Protocol (MAP) message containing the handoff data; and
communicating the MAP message to the second base station.

9. (Original) The mobile station as claimed in claim 8, wherein the controller is further for receiving from said second base station channel information identifying a channel in the second communications system for the mobile station.

10. (Previously Presented) The mobile station as claimed in claim 9, wherein the controller is arranged to respond to the channel information by establishing communication between said mobile station and said second base station in the identified channel.

11. (Previously Presented) The mobile station as claimed in claim 10, herein the controller is arranged to respond to the channel information by discontinuing communication between said mobile station and said first base station.

12. (Previously Presented) The mobile station as claimed in claim 8, wherein said first and second parameters correspond to signal strength.

13. (Previously Presented) The mobile station as claimed in claim 8, wherein said handoff data includes timing information.

14. (Previously Presented) The mobile station as claimed in claim 8, wherein said handoff data includes authentication data.

15. (Original) The mobile station as claimed in claim 8, wherein the first transceiver chain is active when the second transceiver chain is inactive.

16. (Original) The mobile station as claimed in claim 8, wherein the second transceiver chain is active when the first transceiver chain is inactive.

17. (Currently Amended) An apparatus for effecting handoff of a mobile station from a first base station in a first cellular communications system controlled by a first mobile switching control station to a second base station in a second cellular system controlled by a second mobile switching control station, said first cellular communications system being a CDMA system, and said second cellular system being a GSM system, the method comprising:

means for measuring at the mobile station a first parameter of a first signal transmitted by said first base station;

means for measuring at the mobile station a second parameter of a second signal transmitted by said second base station;

means for communicating a signal quality message from the mobile station through the first base station to said first mobile switching control station, when the first and second parameters reach a predetermined condition;

means for generating at the first mobile switching control station an Application Data Delivery Service (ADDS) message containing handoff data, the ADDS message being a type of tunneling mechanism which transparently passes within the CDMA system GSM parameters;

means for communicating the ADDS message from said first mobile switching control station to said mobile station;

means for generating at the mobile station a Mobile Application Protocol (MAP) message containing the handoff data; and

means for communicating the MAP message from the mobile station to the second mobile switching control station.

18. (Original) The apparatus as claimed in claim 17, further comprising means for generating at the second mobile switching control station channel information identifying a channel in the second communications system for the mobile station.

19. (Previously Presented) The apparatus as claimed in claim 18, further comprising means for establishing communication between said mobile station and said second base station in the identified channel.

20. (Previously Presented) The apparatus as claimed in claim 19, further comprising means for discontinuing communication between said mobile station and said first base station.

21. (Previously Presented) The apparatus as claimed in claim 17, wherein said first and second parameters correspond to signal strength.

22. (Previously Presented) The apparatus as claimed in claim 17, wherein said handoff data includes timing information.

23. (Previously Presented) The apparatus as claimed in claim 17, wherein said handoff data includes authentication data.

24. (Canceled)